

AMENDMENT TO THE CLAIMS:

24. (currently amended) An electrochemical cell,
5 comprising:

a positive electrode folded in a zigzag configuration
having folds and creases; and

10 at least one bifold negative electrode having a first
leg and a second leg, said first leg and said second leg
disposed within a first and a second fold on the same side
of the zigzag configuration of said electrode; and

15 an aqueous alkaline electrolyte,
wherein said positive electrode comprises a nickel
hydroxide material and/or said at least one negative
electrode comprises a hydrogen storage alloy.

Claims 25, 26 (canceled)

27. (previously amended) The electrochemical cell of claim
20 24, wherein said positive electrode comprises a nickel
hydroxide material.

28. (previously amended) The electrochemical cell of claim
24, wherein said at least one negative electrode comprises
25 a hydrogen storage alloy.

Claims 29, 30 (canceled)

31. (previously amended) The electrochemical cell of claim
30 24, wherein said first leg and said second leg are disposed
in adjacent folds on the same side of the zigzag
configuration of said positive electrode.

32. (previously amended) The electrochemical cell of claim 24, wherein said at least one bifold negative electrode is a plurality of bifold negative electrodes, each of said 5 bifold negative electrodes having a first leg and a second leg.

33. (previously amended) The electrochemical cell of claim 32, wherein said plurality of bifold negative electrodes 10 are disposed over alternating creases on each side of the zigzag configuration of said positive electrode.

Claims 34-37 (canceled)

15 38. (currently amended) An electrochemical cell, comprising:

an electrode stack including a positive electrode disposed between a first and a second negative electrode, said electrode stack folded in a zigzag configuration with 20 folds and creases; and

an aqueous alkaline electrolyte, wherein said positive electrode comprises a nickel hydroxide material and/or said negative electrodes comprise a hydrogen storage alloy.

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Claim 39, 40 (canceled)

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41. (previously amended) The electrochemical cell of claim 38, wherein said positive electrode comprises a nickel hydroxide material.

5 42. (previously amended) The electrochemical cell of claim 38, wherein said negative electrodes comprise a hydrogen storage alloy.

Claims 43, 44 (canceled)

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45. (previously amended) The electrochemical cell of claim 38, further comprising a hydrophobic material disposed in at least one of the folds of the zigzag configuration of said electrode stack.

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46. (previously amended) The electrochemical cell of claim 38, wherein said electrode stack further comprises a first and a second hydrophobic layer, each of said hydrophobic layers disposed on an outer face of a corresponding negative electrode, said electrode stack folded to form said zigzag configuration.

20 25 47. (previously added) An electrochemical cell, comprising:

a negative electrode folded in a zigzag configuration having folds and creases; and
at least one bifold positive electrode having a first leg and a second leg, said first leg and said second leg disposed within a first and a second fold on the same side
30 of the zigzag configuration of said electrode,

wherein said at least one positive electrode comprises a nickel hydroxide material and/or said negative electrode comprises a hydrogen storage alloy.

5 48. (previously added) The electrochemical cell of claim
47, wherein said at least one positive electrode comprises
a nickel hydroxide material.

10 49. (previously added) The electrochemical cell of claim
47, wherein said negative electrode comprises a hydrogen
storage alloy.

15 50. (previously added) The electrochemical cell of claim
47, wherein said first leg and said second leg are disposed
in adjacent folds on the same side of the zigzag
configuration of said negative electrode.

20 51. (previously added) The electrochemical cell of claim
47, wherein said at least one bifold positive electrode is
a plurality of bifold positive electrodes, each of said
bifold positive electrodes having a first leg and a second
leg.

25 52. (previously added) The electrochemical cell of claim
51, wherein said plurality of bifold positive electrodes
are disposed over alternating creases on each side of the
zigzag configuration of said negative electrode.

30 53. (currently amended) An electrochemical cell,
comprising:
an electrode stack including a negative electrode
disposed between a first and a second positive electrode,

said electrode stack folded in a zigzag configuration with folds and creases; and

an aqueous alkaline electrolyte,
wherein said positive electrodes comprise a nickel
5 hydroxide material and/or said negative electrode comprises
a hydrogen storage alloy.

54. (previously added) The electrochemical cell of claim
53, wherein said positive electrodes comprise a nickel
10 hydroxide material.

55. (previously added) The electrochemical cell of claim
53, wherein said negative electrode comprises a hydrogen
storage alloy.

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56. (previously added) The electrochemical cell of claim
53, further comprising a hydrophobic material disposed in
at least one of the folds of the zigzag configuration of
said electrode stack.

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57. (previously added) The electrochemical cell of claim
53, wherein said electrode stack further comprises a first
and a second hydrophobic layer, each of said hydrophobic
layers disposed on an outer face of a corresponding
25 positive electrode, said electrode stack folded to form
said zigzag configuration.

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